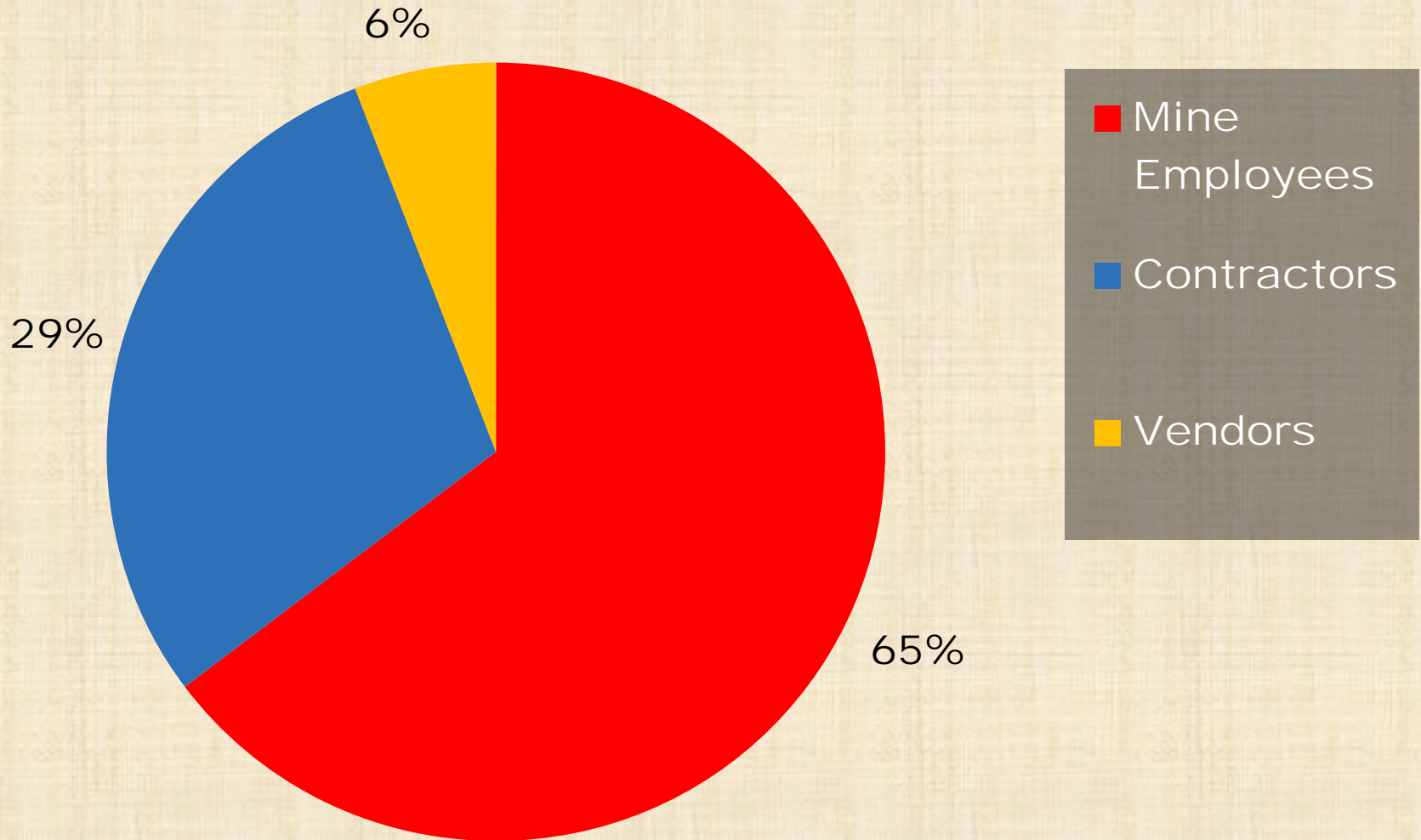
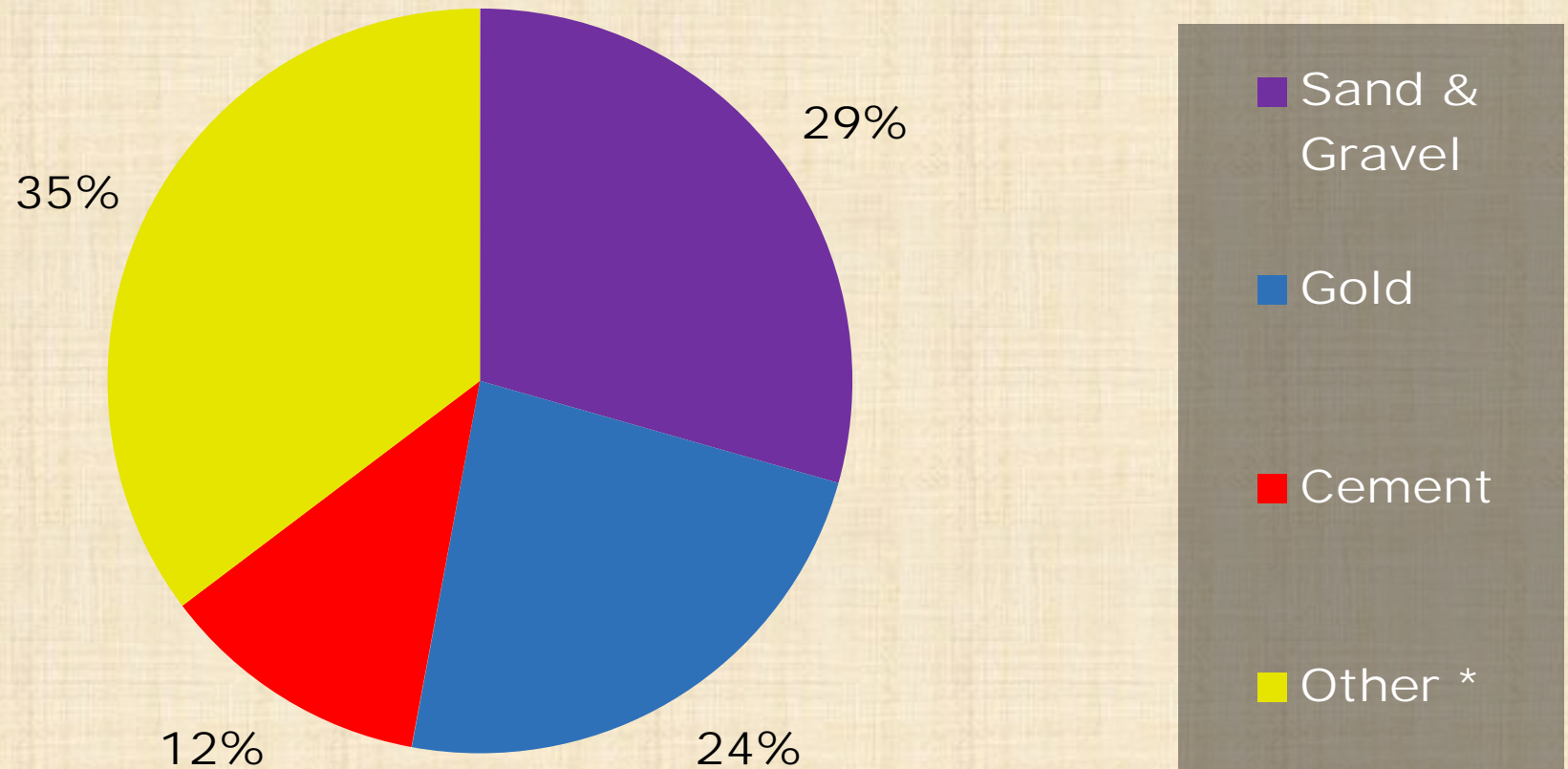


# **Metal and Nonmetal Fatal Accident Review CY – 2015**

# MNM Fatalities

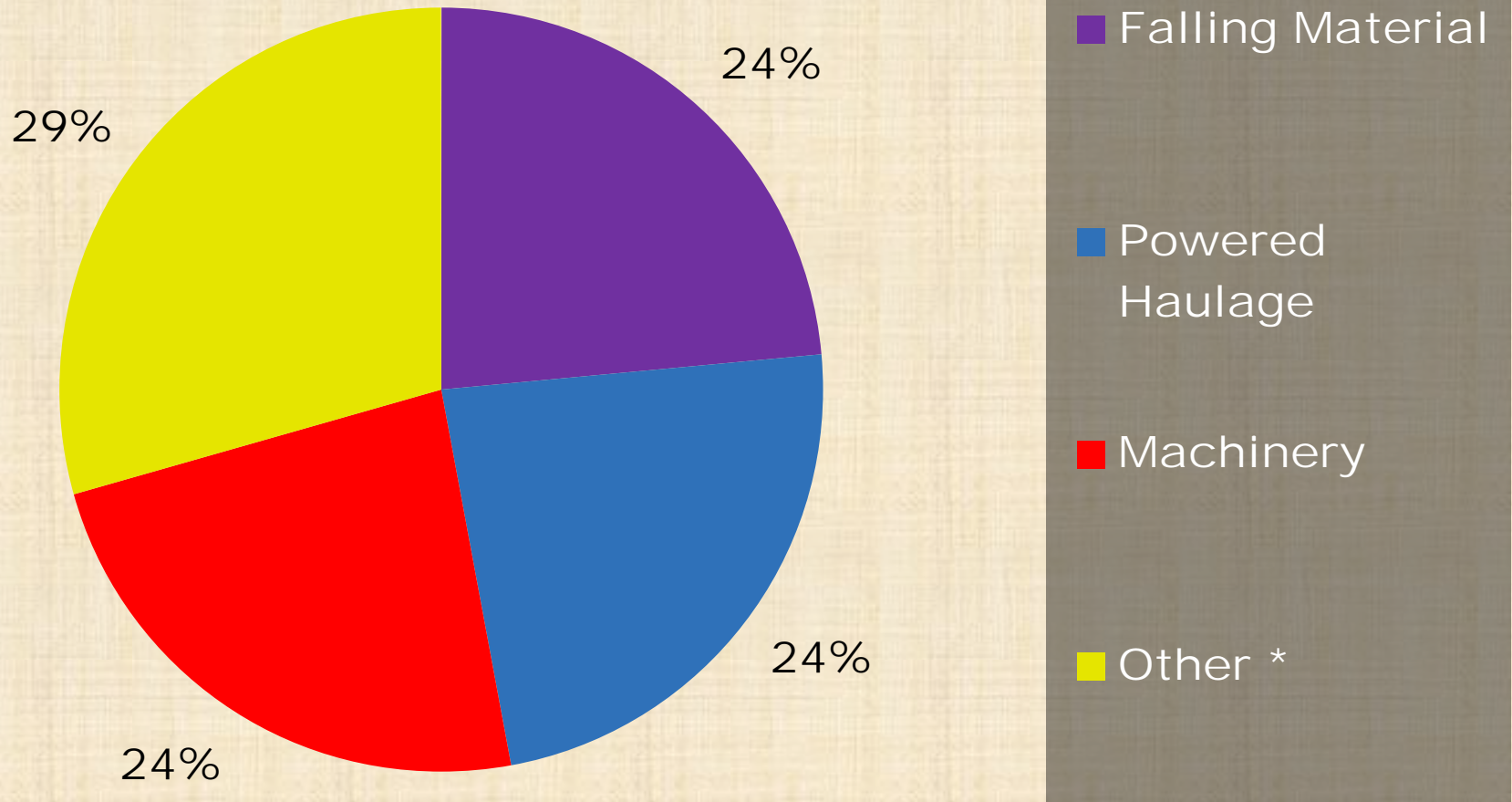


# MNM Fatalities by Commodity



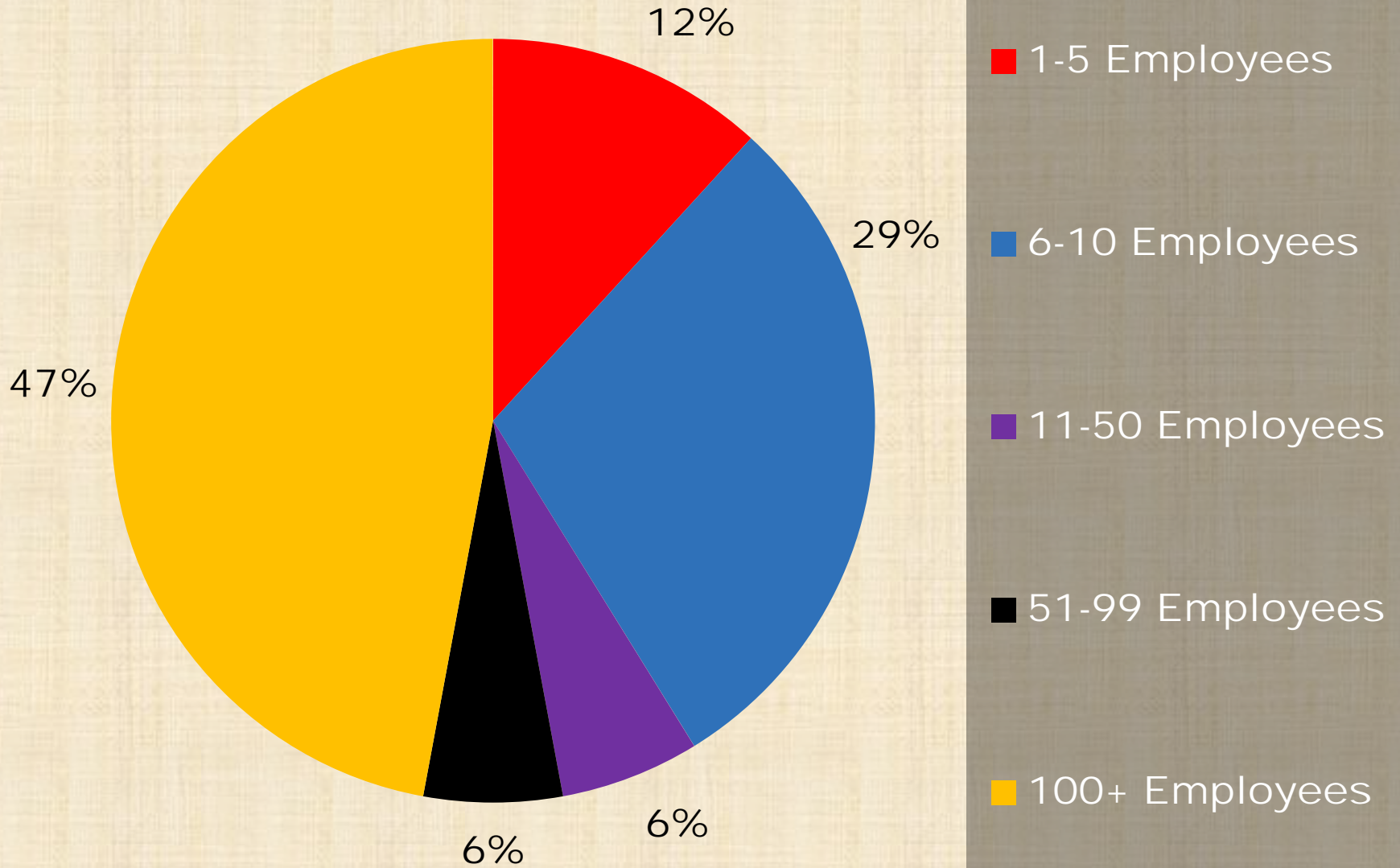
**\* Sandstone, Phosphate, Kaolin, Granite, Lead Ore, and Sand.**

# MNM Fatalities by Classification



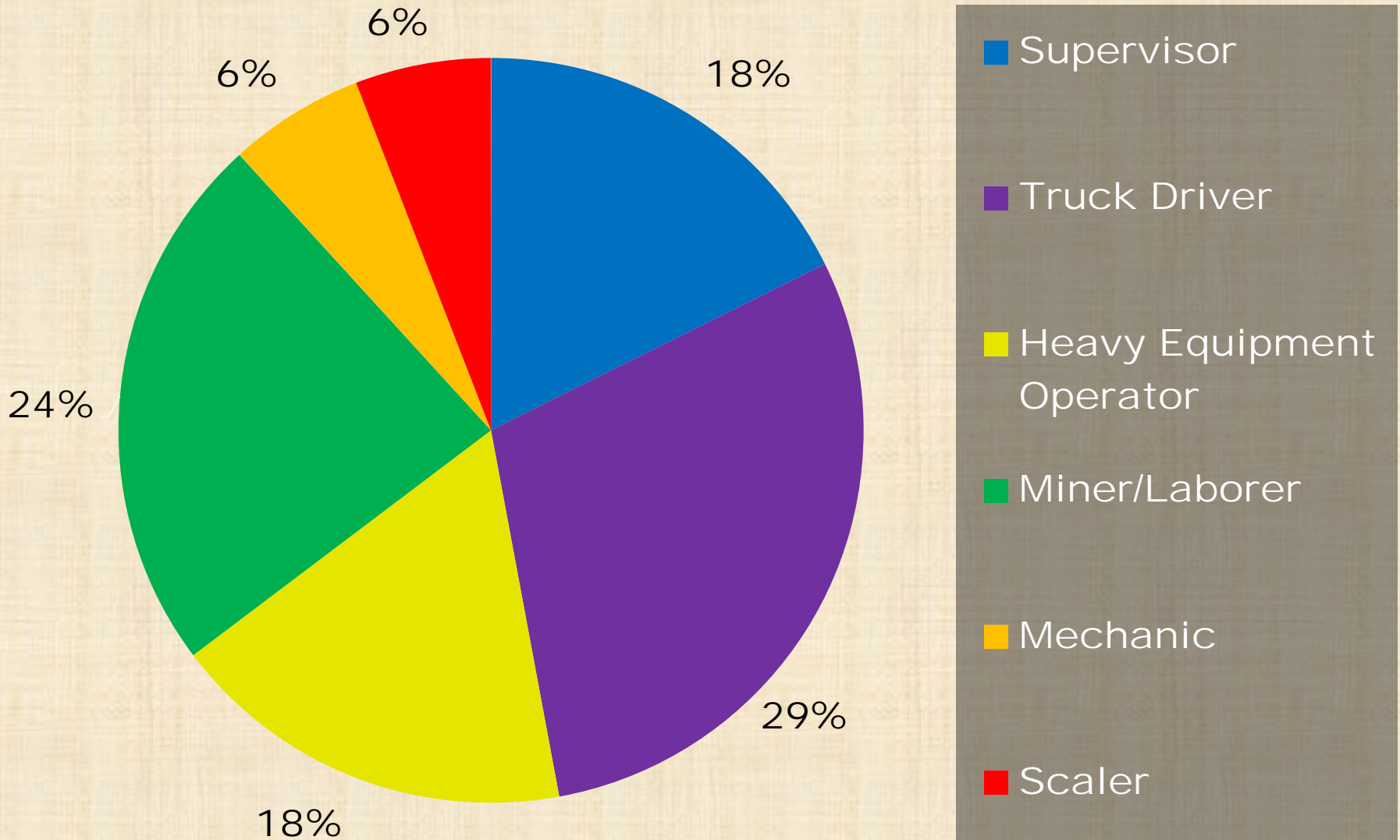
**\*Fall of Roof,  
Hoisting, Striking,  
Fall of Person and  
Other**

# MNM Fatalities by Mine Size

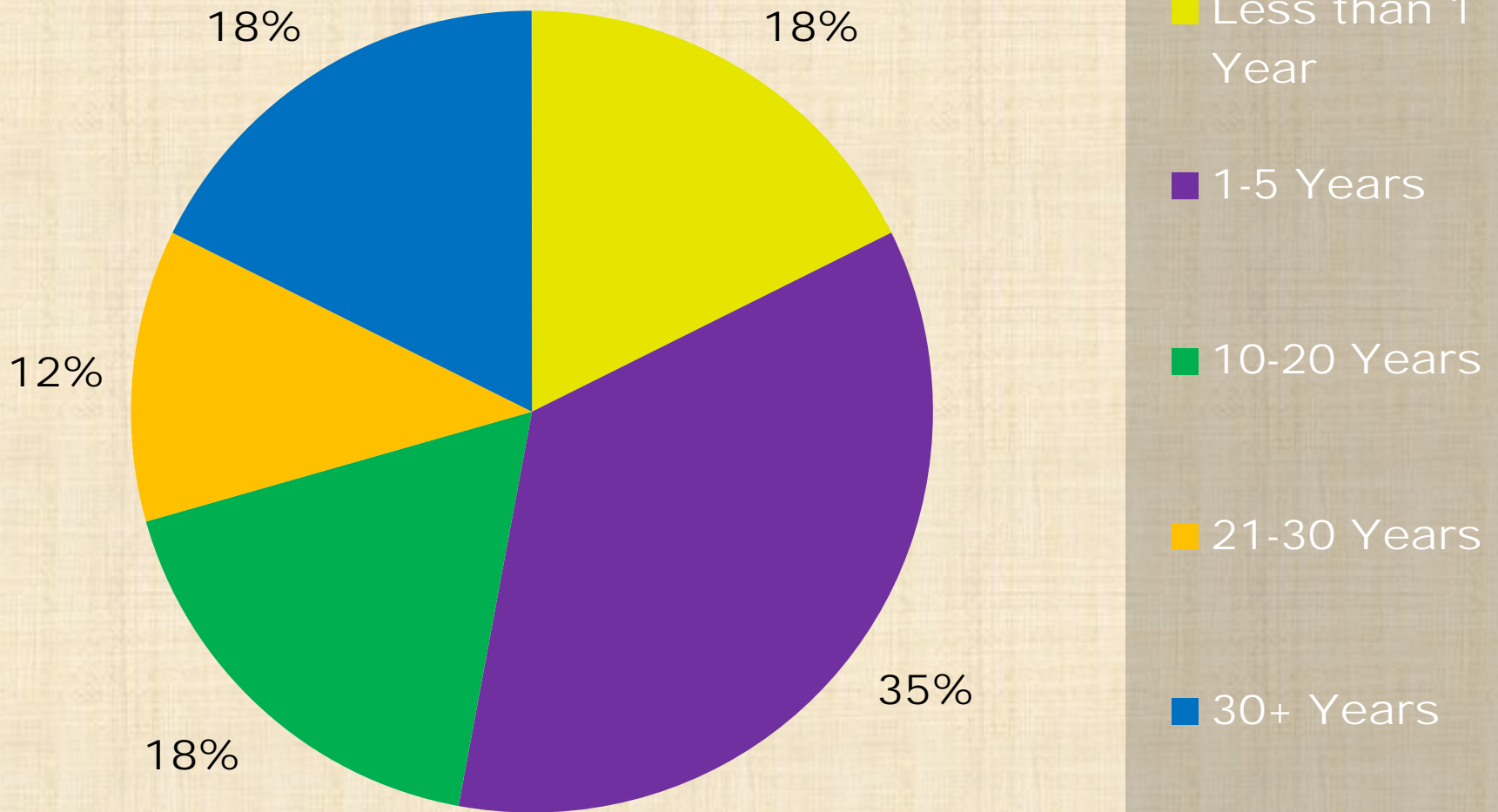




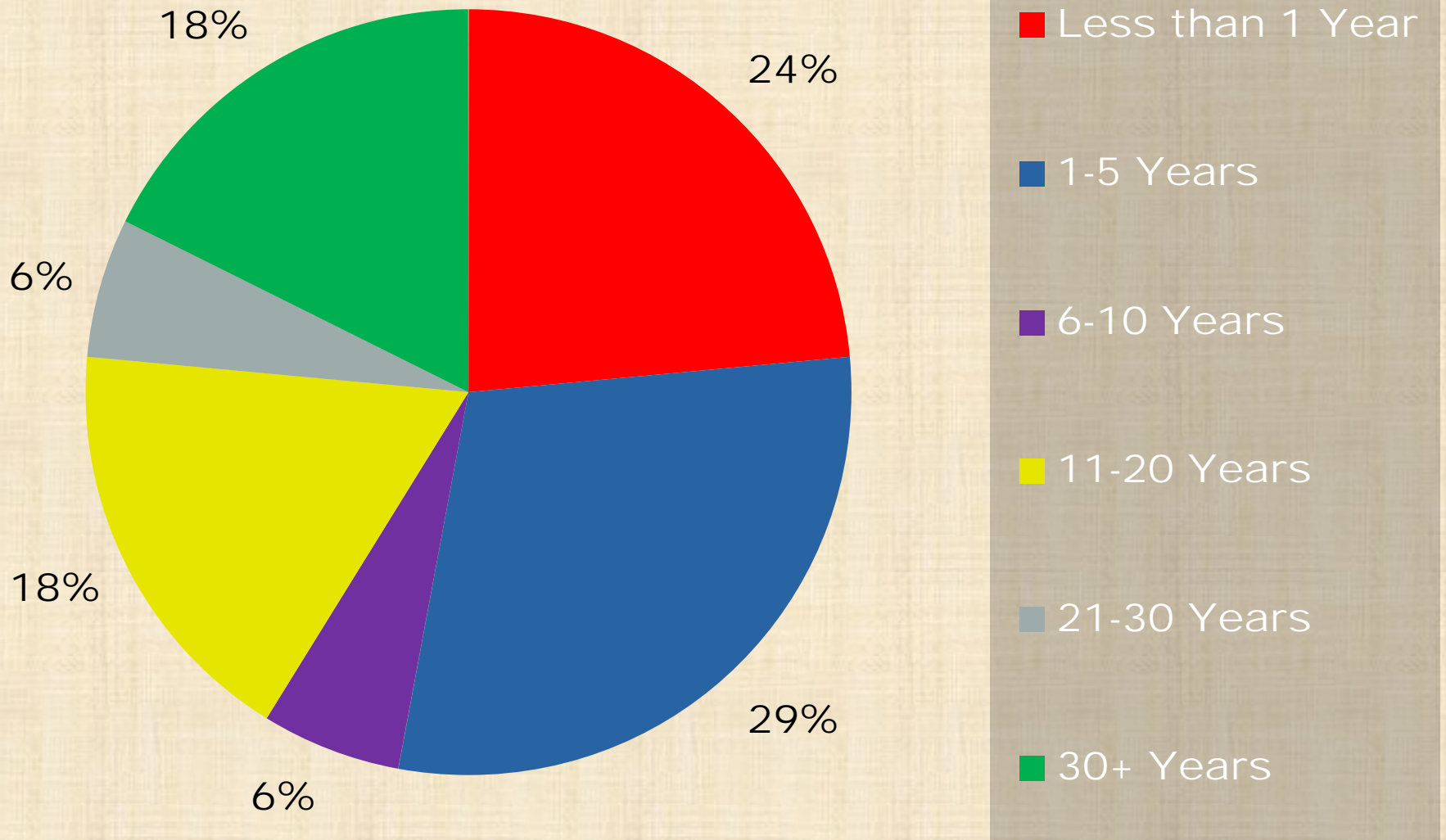
# MNM Fatalities by Occupation



# MNM Fatalities by Total Experience

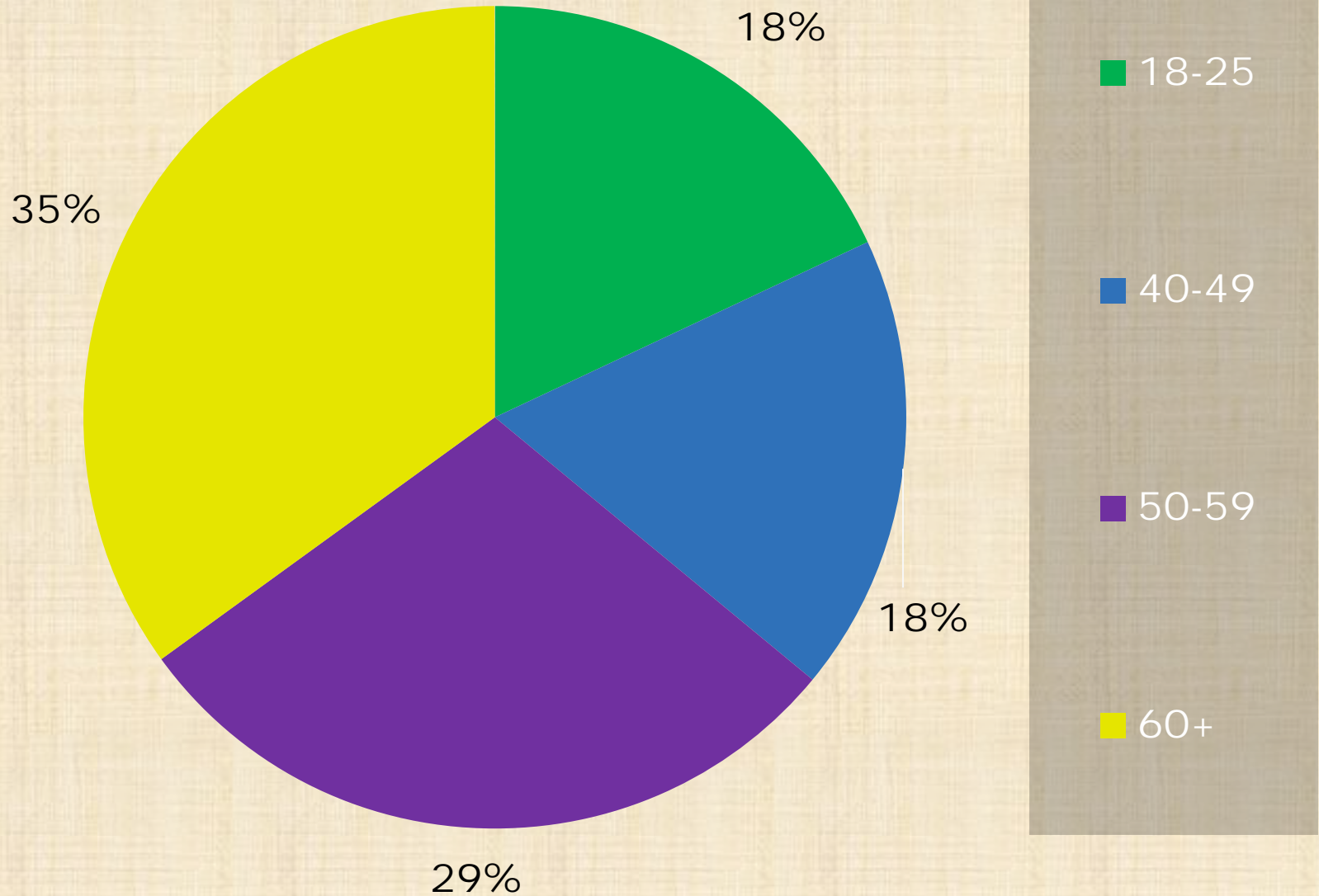


# MNM Fatalities by Job Experience

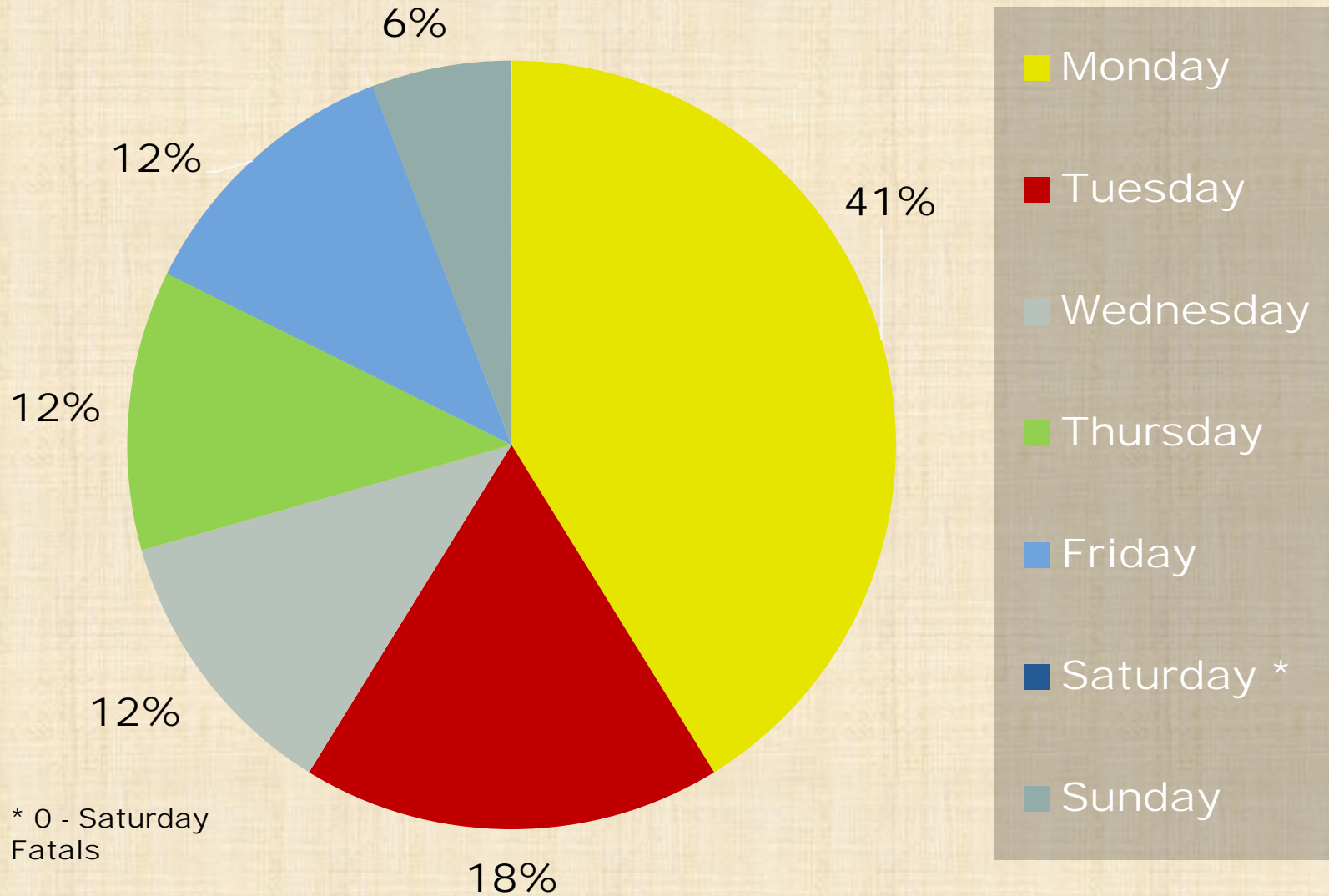




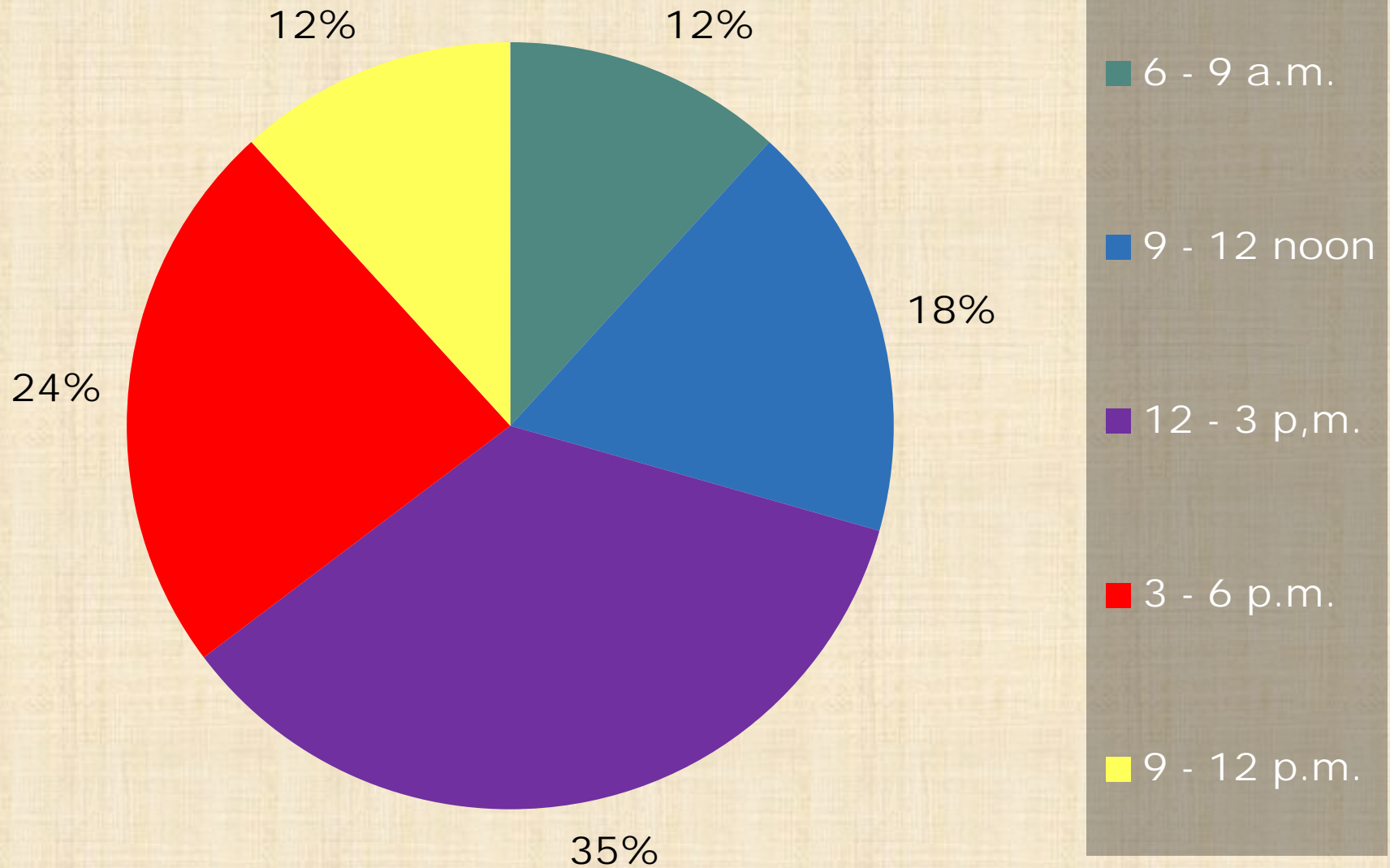
# MNM Fatalities by Age



# MNM Fatalities by Day of Week



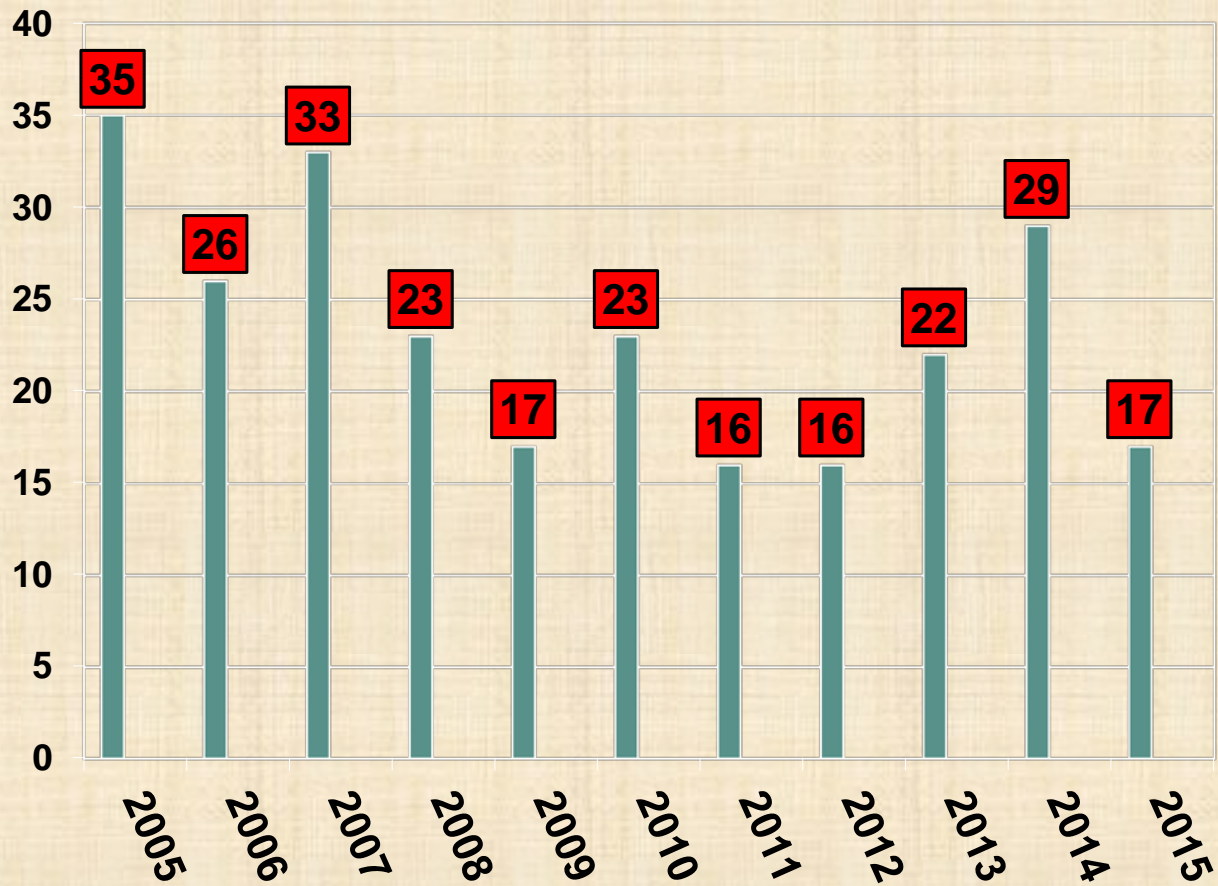
# MNM Fatalities by Hour of Day



# Root Causes

- **Failure to**
  - **Provide Task Training**
  - **Conduct Examinations**
  - **Conduct Risk Assessment**
  - **Conduct Pre-operational Checks**
  - **Maintain Equipment**
  - **Provide Policies, Procedures, Controls**
  - **Provide Personal Protective Equipment**

# MNM Fatalities – 2005-2015





# MNM Fatalities---Supervisors

2015	3
2014	6
2013	5
2012	4
2011	1
2010	2
2009	1
2008	2
2007	4
2006	2
2005	2
2004	6

**Total      38**

Ensure that supervisors are task trained before performing work.

# Powered Haulage

Year	'08	'09	'10	'11	'12	'13	'14
Fatals	5	5	7	4	6	7	8

**--Includes Mobile Equipment and Belt Conveyors**





# Powered Haulage-- Mobile Equipment

- Maintain mobile equipment
- Always wear a seat belt
- Be aware of the location and traffic patterns of mobile equipment in your work area
- Conduct adequate pre-operational checks



# Powered Haulage -- Belt Conveyors

- Deenergize and block belt conveyors against motion before starting the task
- Lock-out/tag-out all energy sources to belt conveyors before working on them.
- Maintain communications with all persons performing the task





# Fall of Roof, Rib and Highwall

Year	'08	'09	'10	'11	'12	'13	'14
Fatals	0	0	1	0	2	1	2

- Establish Safe Procedures
- Discuss safe work procedures
- Look, Listen and Evaluate pit and highwall conditions
- Always examine, sound, and test for loose ground





# Falling/Sliding Material

Year	'08	'09	'10	'11	'12	'13	'14
Fatals	3	3	6	1	2	4	5

- Establish Safe Work Procedures
- Task Train All Persons
- Deenergize Equipment
- Wear a Safety Harness & Lanyard
- Block Equipment Against Motion



# Machinery

Year	'08	'09	'10	'11	'12	'13	'14
Fatals	3	4	3	3	3	2	3

- Identify and control all hazards
- Deenergize equipment and lock out/tag out
- Block equipment against motion





# Slip/Fall of Person

Year	'08	'09	'10	'11	'12	'13	'14
Fatals	4	2	1	3	3	2	4

- Always use PPE
- Eliminate Hazards
- Remove Snow & Ice





U.S. Department of Labor

**Make the  
RIGHT Decision**

Mine Safety and Health Administration